

NEWS 16 FEB 26 IFICDB/IFIPAT/IFIUDB reloaded with enhancements
 NEWS 17 FEB 26 CAS Registry Number crossover limit increased from 10,000
 to 300,000 in multiple databases
 NEWS 18 MAR 15 WPIDS/WPIX enhanced with new FRAGHITSTR display format
 NEWS 19 MAR 16 CASREACT coverage extended
 NEWS 20 MAR 20 MARPAT now updated daily
 NEWS 21 MAR 22 LWPI reloaded
 NEWS 22 MAR 30 RDISCLOSURE reloaded with enhancements
 NEWS 23 APR 02 JICST-EPLUS removed from database clusters and STN
 NEWS 24 APR 30 GENBANK reloaded and enhanced with Genome Project ID field
 NEWS 25 APR 30 CHEMCATS enhanced with 1.2 million new records
 NEWS 26 APR 30 CA/CAPplus enhanced with 1870-1889 U.S. patent records
 NEWS 27 APR 30 INPADOC replaced by INPADOCDB on STN
 NEWS 28 MAY 01 New CAS web site launched
 NEWS 29 MAY 08 CA/CAPplus Indian patent publication number format defined
 NEWS 30 MAY 14 RDISCLOSURE on STN Easy enhanced with new search and display
 fields
 NEWS 31 MAY 21 BIOSIS reloaded and enhanced with archival data
 NEWS 32 MAY 21 TOXCENTER enhanced with BIOSIS reload
 NEWS 33 MAY 21 CA/CAPplus enhanced with additional kind codes for German
 patents
 NEWS 34 MAY 22 CA/CAPplus enhanced with IPC reclassification in Japanese
 patents

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
 MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
 AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:42:12 ON 24 MAY 2007

=> file registry

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FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:42:20 ON 24 MAY 2007

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STRUCTURE FILE UPDATES: 23 MAY 2007 HIGHEST RN 935700-02-0
 DICTIONARY FILE UPDATES: 23 MAY 2007 HIGHEST RN 935700-02-0

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

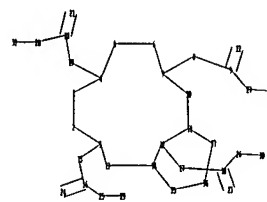
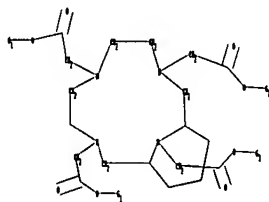
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=>

Uploading C:\Program Files\Stnexp\Queries\10 series\10525673\105256731.str



chain nodes :

8 9 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

ring nodes :

1 2 3 4 5 6 7 10 11 12 13 14 35 36 37

chain bonds :

3-15 4-19 7-8 8-9 9-22 9-27 12-17 15-16 16-24 16-25 17-18 18-23 18-26
19-20 20-21 20-28 25-29 26-30 27-31 28-32

ring bonds :

1-2 1-4 2-3 3-13 4-5 5-6 6-7 7-10 10-11 11-12 11-37 12-14 13-14 14-35
 35-36 36-37
 exact/norm bonds :
 1-2 1-4 2-3 3-13 4-5 5-6 6-7 7-10 9-22 9-27 10-11 11-12 11-37 12-14
 13-14 14-35 16-24 16-25 18-23 18-26 20-21 20-28 25-29 26-30 27-31 28-32
 35-36 36-37
 exact bonds :
 3-15 4-19 7-8 8-9 12-17 15-16 17-18 19-20

G1:H,Ak,C,S,OH,NH,NH2,NH3,NO2,N

Match level :

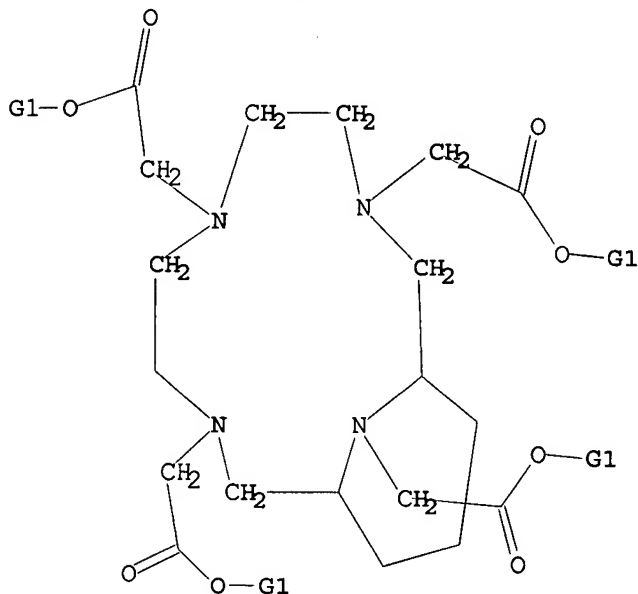
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:CLASS 10:Atom
 11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 17:CLASS 18:CLASS
 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS
 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 35:Atom 36:Atom
 37:Atom

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 H,Ak,C,S,OH,NH,NH2,NH3,NO2,N

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 10:42:43 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 22 TO ITERATE

100.0% PROCESSED

22 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 159 TO 721
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 10:42:48 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 375 TO ITERATE

100.0% PROCESSED 375 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.02

L3 2 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	172.10	172.31

FILE 'CAPLUS' ENTERED AT 10:42:56 ON 24 MAY 2007
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FILE COVERS 1907 - 24 May 2007 VOL 146 ISS 22
FILE LAST UPDATED: 23 May 2007 (20070523/ED)

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=> s l3

L4 2 L3

=> d l4 1-2 ibib abd hitstr

'ABD' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB
ALL ----- BIB, AB, IND, RE
APPS ----- AI, PRAI
BIB ----- AN, plus Bibliographic Data and PI table (default)
CAN ----- List of CA abstract numbers without answer numbers

CBIB ----- AN, plus Compressed Bibliographic Data
 CLASS ----- IPC, NCL, ECLA, FTERM
 DALL ----- ALL, delimited (end of each field identified)
 DMAX ----- MAX, delimited for post-processing
 FAM ----- AN, PI and PRAI in table, plus Patent Family data
 FBIB ----- AN, BIB, plus Patent FAM
 IND ----- Indexing data
 IPC ----- International Patent Classifications
 MAX ----- ALL, plus Patent FAM, RE
 PATS ----- PI, SO
 SAM ----- CC, SX, TI, ST, IT
 SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
 SCAN must be entered on the same line as the DISPLAY,
 e.g., D SCAN or DISPLAY SCAN)
 STD ----- BIB, CLASS

 IABS ----- ABS, indented with text labels
 IALL ----- ALL, indented with text labels
 IBIB ----- BIB, indented with text labels
 IMAX ----- MAX, indented with text labels
 ISTD ----- STD, indented with text labels

 OBIB ----- AN, plus Bibliographic Data (original)
 OIBIB ----- OBIB, indented with text labels

 SBIB ----- BIB, no citations
 SIBIB ----- IBIB, no citations

 HIT ----- Fields containing hit terms
 HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)
 containing hit terms
 HITRN ----- HIT RN and its text modification
 HITSTR ----- HIT RN, its text modification, its CA index name, and
 its structure diagram
 HITSEQ ----- HIT RN, its text modification, its CA index name, its
 structure diagram, plus NTE and SEQ fields
 FHITSTR ----- First HIT RN, its text modification, its CA index name, and
 its structure diagram
 FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
 structure diagram, plus NTE and SEQ fields
 KWIC ----- Hit term plus 20 words on either side
 OCC ----- Number of occurrence of hit term and field in which it occurs

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 ENTER DISPLAY FORMAT (BIB):ibib

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:487751 CAPLUS
DOCUMENT NUMBER: 146:116966
TITLE: In vitro and in vivo evaluation of novel ligands for
radioimmunotherapy
AUTHOR(S): Chong, Hyun-Soon; Milenic, Diane E.; Garmestani,
Kayhan; Brady, Erik D.; Arora, Hans; Pfeister,
Candice; Brechbiel, Martin W.
CORPORATE SOURCE: National Cancer Institute, Radioimmune and Inorganic
Chemistry Section, Radiation Oncology Branch, Center
for Cancer Research, NIH, Bethesda, MD, USA
SOURCE: Nuclear Medicine and Biology (2006), 33(4), 459-467
CODEN: NMBIO; ISSN: 0969-8051
PUBLISHER: Elsevier Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR
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L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:173792 CAPLUS
DOCUMENT NUMBER: 144:385035
TITLE: Synthesis and Evaluation of Novel Macrocyclic and
Acyclic Ligands as Contrast Enhancement Agents for
Magnetic Resonance Imaging
AUTHOR(S): Chong, Hyun-Soon; Garmestani, Kayhan; Bryant, L.
Henry, Jr.; Milenic, Diane E.; Overstreet, Terrish;
Birch, Noah; Le, Thien; Brady, Erik D.; Brechbiel,
Martin W.
CORPORATE SOURCE: Biological Chemical and Physical Sciences Department,
Chemistry Division, Illinois Institute of Technology,
Chicago, IL, 60616, USA
SOURCE: Journal of Medicinal Chemistry (2006), 49(6),
2055-2062
CODEN: JMCMA; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 144:385035
REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR
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FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

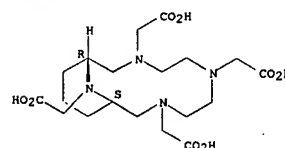
=> d 14 1-2 ibib abs hitstr

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:48751 CAPLUS
 DOCUMENT NUMBER: 146:116966
 TITLE: In vitro and in vivo evaluation of novel ligands for radioimmunotherapy
 AUTHOR(S): Chong, Hyun-Soon; Milenic, Diane E.; Garmestani, Kayhan; Brady, Erik D.; Arora, Hans; Pfister, Candice; Brechbiel, Martin W.
 CORPORATE SOURCE: National Cancer Institute, Radioimmune and Inorganic Chemistry Section, Radiation Oncology Branch, Center for Cancer Research, NIH, Bethesda, MD, USA
 SOURCE: Nuclear Medicine and Biology (2006), 33(4), 459-467
 CODEN: NMIBIO; ISSN: 0969-8051
 PUBLISHER: Elsevier Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Novel ligands cis-2,6-bis[N,N-bis(carboxymethyl)aminomethyl]-1-piperidineacetic acid (PIP-DTPA), piperidineacetic acid (PIP-DTPA), cis-[(1R,11S)-6,9,15-Triis-carboxymethyl-3,6,9,15-tetraazabicyclo[9.3.1]pentadec-3-yl]-acetic acid (PIP-DOTA), cis-[(2,7-bis-[(bis-carboxymethyl-amino)-methyl]-azepan-1-yl)-acetic acid (AZEP-DTPA), [2-(4,7-bis-carboxymethyl-1,4,7)]triazacyclononan-1-yl-ethyl-2-carboxymethyl-amino-tetraacetic acid (NETA) and [4-carboxymethyl-7-2-(carboxymethylamino)-ethyl]-perhydro-1,4,7-triazonin-1-yl-acetic acid (NPTA) are investigated as potential chelators of ¹⁷⁷Lu, ⁹⁰Y, ²¹²Pb and ²¹³Bi for radioimmunotherapy (RIT). The new ligands are radiolabeled with ¹⁷⁷Lu, ⁸⁶Se/⁹⁰Y, ²⁰³Pb and ²⁰⁵Tl, and in vitro stability and in vivo stability of the radiolabeled complexes are assessed in human serum and athymic mice, resp. In vitro studies indicate that all radiolabeled complexes with the exception of ⁹⁰Y-AZEP-DTPA are stable in serum for 5-11 days. All new ligands examined herein are found to tightly hold ¹⁷⁷Lu in vivo. Piperidine-backed DTPA (PIP-DTPA) complexes radiolabeled with all radioisotopes examined display excellent in vivo stability, i.e., excretion without dissociation. The azepane-backed DTPA derivative, AZEP-DTPA, appears ineffective in binding all but ¹⁷⁷Lu in vivo. NETA and NPTA radiolabeled with ⁸⁶Y or ¹⁷⁷Lu exhibit rapid blood clearance and low organ uptakes. Significant accretion in the kidney, femur and/or liver is observed with ²⁰³Pb-labeled AZEP-DTPA, PIP-DOTA and NPTA. Both ²⁰³Pb-PIP-DOTA and ²⁰⁵Tl-PIP-DOTA result in moderate to high renal accumulation of radioactivity. NETA exhibits improved renal accumulation with respect to PIP-DOTA for ²⁰⁵Tl but also shows significant liver uptake. Of all ligands studied, only PIP-DTPA appears to effectively bind ²⁰³Pb and ²⁰⁵Tl in vivo. PIP-DTPA, PIP-DOTA, NETA and NPTA all show strong evidence of rapid blood clearance and low organ uptake for ¹⁷⁷Lu and ⁹⁰Y. Serum stability and in vivo biodistribution results suggest PIP-DTPA as a potential chelating agent with broad applicability for use in ¹⁷⁷Lu, ⁹⁰Y, ²¹²Pb and ²¹³Bi RIT.
 IT 883242-29-3D, radiolabeled
 RL: PKT (Pharmacokinetics); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (novel bifunctional ligands as potential chelators of ¹⁷⁷Lu, ⁹⁰Y, ²¹²Pb and ²¹³Bi for application in radioimmunotherapy)
 RN 883242-29-3 CAPLUS
 CN 3,6,9,15-Tetraazabicyclo[9.3.1]pentadecane-3,6,9,15-tetraacetic acid,

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:173792 CAPLUS
 DOCUMENT NUMBER: 144:385035
 TITLE: Synthesis and Evaluation of Novel Macrocyclic and Acyclic Ligands as Contrast Enhancement Agents for Magnetic Resonance Imaging
 AUTHOR(S): Chong, Hyun-Soon; Garmestani, Kayhan; Bryant, L. Henry, Jr.; Milenic, Diane E.; Overstreet, Terrish; Birch, Noah; Le, Thien; Brady, Erik D.; Brechbiel, Martin W.
 CORPORATE SOURCE: Biological Chemical and Physical Sciences Department, Chemistry Division, Illinois Institute of Technology, Chicago, IL, 60616, USA
 SOURCE: Journal of Medicinal Chemistry (2006), 49(6), 2055-2062
 CODEN: JMCMAR; ISSN: 0022-2623
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 144:385035
 AB Novel chelates PIP-DTPA, AZEP-DTPA, NETA, NPTA, and PIP-DOTA were synthesized and evaluated as potential magnetic resonance imaging (MRI) contrast enhancement agents. The T1 and T2 relaxivities of their corresponding Gd(III) complexes are reported. At clin. relevant field strengths, the relaxivities of the complexes are comparable to that of the clin. used contrast agents Gd(DTPA) and Gd(DOTA). The serum stability of the ¹⁵³Gd-labeled complexes, Gd(PIP-DTPA), Gd(AZEP-DTPA), Gd(PIP-DOTA), Gd(NETA), and Gd(NPTA), was assessed by measuring the release of ¹⁵³Gd from the complexes. ¹⁵³Gd(NETA), ¹⁵³Gd(PIP-DTPA), and ¹⁵³Gd(PIP-DOTA) were found to be stable in human serum for up to 14 days without any measurable loss of radioactivity. Significant release of ¹⁵³Gd was observed with the ¹⁵³Gd(III) radiolabeled NPTA. In vivo biodistribution of the ¹⁵³Gd-labeled complexes was performed to evaluate their in vivo stability. While Gd(AZEP-DTPA) and Gd(NPTA) were found to be unstable in vivo, Gd(NETA), Gd(PIP-DTPA), and Gd(PIP-DOTA) were excreted without dissociation. These results suggest that the Gd(III) complexes of the novel chelates NETA, PIP-DTPA, and PIP-DOTA possess potential as MRI contrast enhancement agents. In particular, the piperidine backed chelates Gd(PIP-DTPA) and Gd(PIP-DOTA) displayed reduced kidney retention as compared to the nonspecific MRI contrast agent Gd(DOTA) at all time points, although the observed effects were relatively small at 0.5 h postinjection. Incorporation of the lipophilic piperidine ring appears to confer a moderate effect on the liver uptake of these two chelates.
 IT 883242-29-3DP, Gadolinium ¹⁵³ labeled
 RL: DGN (Diagnostic use); PKT (Pharmacokinetics); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation and evaluation of novel macrocyclic and acyclic ligands as MRI contrast agents)
 RN 883242-29-3 CAPLUS
 CN 3,6,9,15-Tetraazabicyclo[9.3.1]pentadecane-3,6,9,15-tetraacetic acid, (1R,11S)-rel- (CA INDEX NAME)
 Relative stereochemistry.

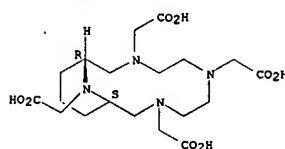
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 (1R,11S)-rel- (CA INDEX NAME)

Relative stereochemistry.

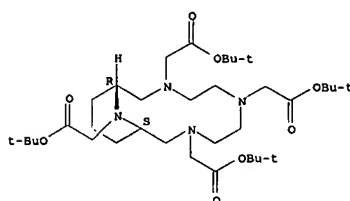


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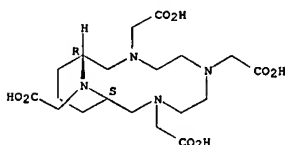
L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IT 883242-28-2P 883242-29-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and evaluation of novel macrocyclic and acyclic ligands as MRI contrast agents)
 RN 883242-28-2 CAPLUS
 CN 3,6,9,15-Tetraazabicyclo[9.3.1]pentadecane-3,6,9,15-tetraacetic acid, tetrakis(1,1-dimethylethyl) ester, (1R,11S)-rel- (9CI) (CA INDEX NAME)
 Relative stereochemistry.



RN 883242-29-3 CAPLUS
 CN 3,6,9,15-Tetraazabicyclo[9.3.1]pentadecane-3,6,9,15-tetraacetic acid, (1R,11S)-rel- (CA INDEX NAME)
 Relative stereochemistry.



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS

=> FIL STNGUIDE
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
14.31	186.62

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-1.56	-1.56

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